PART 13. PUBLICATIONS, PRESENTATIONS and ARTICLES

1. PUBLICATIONS

1.1 Mission


1.2 Sensor Web/Test-Bed Initiatives


1.3 Spacecraft Bus


1.4 Technology

1.4.1 Advanced Land Imager (ALI)


11. Hearn, D. R., J. A. Mendenhall and B. C. Willard, “Spatial calibration of the EO-1 Advanced Land


### 1.4.2 Hyperion


10. **Folkman, Mark,** Jay Pearlman, Lushalan Liao, and Peter Jarecke, SPIE, 2000, EO-1 Hyperion hyperspectral imager design, development, characterization, and calibration.


1.4.3 LEISA Atmospheric Corrector (LAC)


1.4.4 X-Band Phased Array Antenna (XPAA)


1.4.5 Wideband Advanced Recorder and Processor (WARP)

1.4.6 Enhanced Formation Flying (GSFC Algorithm)


1.4.7 Enhanced Formation Flying (JPL Algorithm)


1.4.8 Pulsed Plasma Thruster (PPT)


### 1.4.9 Lightweight Flexible Solar Array (LFSA)

TBD

### 1.4.10 Carbon-Carbon Radiator (CCR)


### 1.4.11 LA-II Thermal Coating


### 1.5 Science

**IEEE 2001 International Geoscience and Remote Sensing Symposium (IGARSS), Sydney, Australia  July 9-14, 2001**


**IEEE Transactions on Geoscience and Remote Sensing, Vol. 41, No. 6, Special Issue on the EO-1 Mission June 2003**


10th JPL AVIRIS Geoscience Workshop, February 27 – March 2, 2001


11th JPL AVIRIS Geoscience Workshop, March 2002


12th JPL AVIRIS Geoscience Workshop, February 2003


Proceedings SPIE Conference, April 1-5, 2002


Proceedings SPIE Conference, September 9-12, 2003


29th International Symposium on Remote Sensing of Environment, Buenos Aires, April 8-12, 2002


**Remote Sensing of Environment**


**G.P. Asner – Miscellaneous**


**General Miscellaneous**


Total Number of Papers = 311

### 2. PRESENTATIONS

#### 2.1 Mission


#### 2.2 Sensor Web/Test-Bed Initiatives


#### 2.3 Spacecraft Bus

2.4 Technology

2.4.1 Advanced Land Imager (ALI)


2.4.2 Hyperion


2.4.3 LEISA Atmospheric Corrector (LAC)


2.4.4 X-Band Phased Array Antenna (XPAA)


2.4.5 Wideband Advanced Recorder and Processor (WARP)


2.4.6 Enhanced Formation Flying (GSFC Algorithm)
2.4.7 Enhanced Formation Flying (JPL Algorithm)


2.4.8 Pulsed Plasma Thruster (PPT)


2.4.9 Lightweight Flexible Solar Array (LFSA)


2.4.10 Carbon-Carbon Radiator (CCR)


2.4.11 LA-II Thermal Coating


2.5 Science

**CISRO EOC Annual Science Meeting, Canberra, Australia, 2001 and 2002**


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**EO-1 Science Validation Team Meeting, Tucson, AZ, May 2001**


15. **Huete, Alfredo,** “Scaling-Up Field-Based Biophysical Parameters over Argentina to Coarser Scale MODIS Data”, EO-1 Science Validation Team Meeting, Tucson, AZ, May 2001


22. **Goetz, A.F.H.,** 2001, Updates on CAL activities. EO-1 Science Validation Meeting. May 1-3. Tucson,


EO-1 and SAC-C Science Validation Meeting, Buenos Aires, Nov. 2001


40. Cudahy, Thomas, An additive SWIR instrument/processing artifact observed in recent Hyperion data, EO-1 and SAC-C Science Validation meeting, Buenos Aires, Nov. 2001.

41. Cudahy, Thomas, Mineral mapping at the Australian Mount Fitton and Panorama test sites, EO-1 and SAC-C Science Validation meeting, Buenos Aires, Nov. 2001.


48. Held, Alex, Summary of Australian Land and Vegetation - Based EO-1 Activities, EO-1 and SAC-C Science Validation meeting, Buenos Aires, Nov. 2001.


50. Huete, Alfredo, Gao Xiang, and Tomoaki Miura, Characterization of Land Degradation at the Nacunan Reserve in Argentina with AVIRIS and EO-1 Hyperion Data, EO-1 and SAC-C Science Validation meeting,

51. **Jupp, David** and Alex Held, Summary of Australian EO-1 activities, EO-1 and SAC-C Science Validation meeting, Buenos Aires, Nov. 2001.


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**EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002**

66. **Abrams, Mike**, Validation of EO-1 over Venice for Urban Mapping & Lagoon Studies, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

67. **Asner, Greg**, Analysis of EO-1 Hyperion Imagery for Desertification Research Applications in Argentina and EO-1 Hyperion vs. Landsat ETM+ for Selective Logging Research in the Amazon, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

68. **Biggar, Stuart**, Review of in-flight radiometric of ALI and Hyperion and spatial calibration of ALI, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

69. **Bindschadler, Robert**, Of Things Glaciological, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
70. **Blonski, Slawomir**, Synthesis of Multispectral Bands from Hyperspectral Data: Validation Based on Images Acquired by AVIRIS, Hyperion, ALI, and ETM+, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.


72. **Carlson, Barbra**, Atmospheric Correction Using Hyperion, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

73. **Crowley, James**, Mapping Potential Debris Flow Source Areas on Stratovolcanoes: Integration of Digital Terrain Data with Spectral Mineralogy Obtained from Hyperion, ALI, and ASTER, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.


75. **Goetz, Alex**, Dynamic Flat-Field Correction of Hyperion Data Using Statistical Techniques, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

76. **Goetz, Alex**, HATCH-2d Atmospheric Correction Applied to Hyperion Data, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

77. **Gong, Peng**, Retrieval of Surface Reflectance and LAI Mapping Using Hyperion ALI and AVIRIS, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

78. **Goodenough, David**, Forest Monitoring with EO-1 in the Evaluation and Validation of EO-1 for Sustainable Development (EVEOSD) Project, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

79. **Green, Robert**, Hyperion Cal/Val Comparisons (with ALI, AVIRIS, ETM+, MODIS, etc.), EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

80. **Hearn, David**, Advanced Land Imager Spatial Performance Validation, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

81. **Jupp, David**, Outcomes from the EO-1 Collects at Australian Sites and their Analysis, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.


83. **Kruse, Fred**, Geologic Validation of EO-1 Hyperion, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

84. **Liang, Shunlin** and Fang, Hongliang, Estimation and Evaluation of Surface Parameters from EO-1 for Agricultural Monitoring, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

85. **Markham, Brian**, Landsat-7 ETM+ Radiometric Cal/Val Activities, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

86. **Martin, Mary**, Analysis of Hyperion Data in Australian and Northeastern US Forests, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

87. **McGwire, Kenneth**, Identifying Tamarix Ramosissima with EO-1 Hyperion Imagery, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

88. **Mendenhall, Jeff**, EO-1 Advanced Land Imager Radiometric Assessment Update, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

89. **Mendenhall, Jeff**, EO-1 ALI Lunar Calibration, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

90. **Meyer, Dave**, ALI Characterization, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

91. **Moran, Susan**, Data Continuity of EO-1 ALI and Landsat TM and ETM+ Sensors, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
92. **Mustard, John** and Andrew Elmore, Comparison of the Precision and Accuracy of ALI and ETM+ Data for Determination of Green Cover in Semi-Arid Systems, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.


94. **Orloff, Seth**, Hyperion Data Analysis: Sample Results, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

95. **Pearlman, Jay**, Hyperion Noise and Atmospheric Impacts on Vegetation Data, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

96. **Ramsey, III, Elijah**, Mapping the Invasive Species, Chinese Tallow, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.


98. **Root, Ralph**, Comparison of EO1 Hyperion, AVIRIS, and CASI for Classification and Mapping of Invasive Leafy Spurge in Theodore Roosevelt National Park, North Dakota, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

99. **Storey, Jim**, Landsat 7 Geometric Calibration and Performance, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

100. **Townsend, Phil**, Hyperspectral Remote Sensing of Forest Ecosystem Composition and Structure in the Appalachians and Bolivian Amazon, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.


102. **White, William** and Melba Crawford, "Evaluation of ALI Imagery through an Analysis of Land Cover / Land Use and Hurricane Impacts in Belize, Central America" and "Out of Africa plus other Stuff", EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

103. **Zimbelman, David**, Global Assessment of Volcanic Debris Flow Hazards from Space—Results from Field Mapping and Alteration Studies, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

104. **Abrams, Michael**, “Urban mapping with EO1, Landsat, ASTER, Ikonos and MIVIS” and “Lagoon and Ocean Validation with EO1, Landsat, and MIVIS,” EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.


110. **Bryant, Ross**, Data Continuity of Landsat-4 TM, Landsat-5 TM, Landsat-7 ETM, and Advanced Land Imager (ALI) sensors, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.

111. **Burke, Hsiao-hua K.**, Cloud Cover Detection Algorithms for EO-1 Hyperion Imagery, EO-1 Science


120. **Green, Robert**, On-Orbit Radiometric and Spectral Calibration Characteristic of EO-1 Hyperion Derived with an Underflight of AVIRIS and In Situ Measurements at Salar de Arizaro, Argentina, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.

121. **Heidebrecht, Kathy**, Tropical Forest Canopy Structure and Chemistry in the Brazilian Amazon, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.

122. **Held, Alex**, Mapping of Sugarcane Biophysical Variables with the Hyperion Imaging Spectrometer on the NASA EO-1, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.


130. **Mendenhall, Jeff**, The Advanced Land Imager On-Orbit Calibration: What We Learned During the First Two Years On-Orbit and How it Affects SVT Data, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.


132. **Mustard, John**, Performance of ALI in the Determination of Arid Region Vegetation Live Cover AND
Comparison of EO-1 Instruments to ETM+ for Water Applications, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.

133. Ong, Lawrence, Hyperion Flat Fielding with 90° Yaw Data, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.


138. Smith, Marie-Louise, Analysis of Hyperspectral Data for Estimation of Temperate Forest Canopy N Concentration: Comparison between an Airborne (AVIRIS) and a Spaceborne (Hyperion) Sensor, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.

139. Townsend, Phil, Mapping Forest Composition, Structure and Biochemistry in the Appalachians Using Data from EO-1 Hyperion, Landsat and AVIRIS, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.

140. Ungar, Steve, ALI and Hyperion Trending, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.

ASPRS Annual Conference, Anchorage, AK, May 2003


Hyperspectral Data Compression Workshop, Goddard Space Flight Center, May 2003


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**11th Annual JPL Airborne Earth Science Workshop, Pasadena, CA, March 2002**


**13th Annual JPL AVIRIS Geoscience Workshop, March 2004**


**J. Pearlman – Miscellaneous**


**R. Root – Miscellaneous**


183. **Root, R.** (2002), Comparison of high, medium, and low spatial resolution hyperspectral sensors for mapping of invasive leafy spurge at Theodore Roosevelt National Park, North Dakota. ACSM-ASPRS Conference and
Technology Exhibition. April 22. Washington, D.C.


**AM Constellation Workshop, Buenos Aires, December 3-5, 2003**


**General Miscellaneous**


Total Number of Presentations = 227

**3. ARTICLES**


5. “HYPERION: the first imaging spectrometer from space: also suitable for inland and coastal water


Total Number of Articles = 29